

## Datasheet: MCA2693A647T

<b>Description:</b>	MOUSE ANTI HUMAN CD56:Alexa Fluor® 647
<b>Specificity:</b>	CD56
<b>Other names:</b>	N-CAM
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	123C3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 TESTS/0.25ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/5

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Species Cross Reactivity</b>	Does not react with:Rat		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
	1% Bovine Serum Albumin		

<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml
<b>Immunogen</b>	Membrane preparation of small lung carcinoma.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P13591</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4684</a>    NCAM1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	NCAM
<b>RRID</b>	AB_1102206
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the murine Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD56 antibody, clone 123C3</b> recognizes human neural cell adhesion molecule (NCAM), otherwise known as CD56. The CD56 molecule is a cell surface glycoprotein expressed on neuroendocrine cells, natural killer cells and a subset of T cells in the peripheral blood. Three main isoforms of CD56 exist. Neurons express the largest 180 kDa form, while hemopoietic cells express the 140 kDa isoform. Mouse anti Human CD56 antibody, clone 123C3 recognizes both the 140 kDa and the 180 kDa isoform of the CD56 protein.</p> <p>In neuronal tissues, CD56 mediates homophilic and heterophilic adhesion and is implicated in neural development. CD56 is also expressed on thyroid follicular epithelium and may play a role in autoimmune disease of the thyroid. CD56 is expressed in a range of tumors including tumors of the lung, neural derived malignancies and natural killer cell lymphomas.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Schol, D.J. <i>et al.</i> (1988) Monoclonal antibody 123C3, identifying small cell carcinoma phenotype in lung tumours, recognizes mainly, but not exclusively, endocrine and neuron-supporting normal tissues. <a href="#">Int J Cancer Suppl. 2: 34-40.</a></li> <li>Mooi, W.J. <i>et al.</i> (1988) Monoclonal antibody 123C3 in lung tumour classification. Immunohistology of 358 resected lung tumours. <a href="#">Mol Cell Probes. 2 (1): 31-7.</a></li> <li>Moolenaar, C.E. <i>et al.</i> (1990) Expression of neural cell adhesion molecule-related sialoglycoprotein in small cell lung cancer and neuroblastoma cell lines H69 and CHP-212. <a href="#">Cancer Res. 50 (4): 1102-6.</a></li> <li>Aloysius, M.M. <i>et al.</i> (2010) Mucins and CD56 as markers of tumour invasion and prognosis in periampullary cancer. <a href="#">Br J Surg. 97: 1269-78</a></li> <li>Wanka, G. <i>et al.</i> (2020) LDOC1 as Negative Prognostic Marker for Vulvar Cancer Patients. <a href="#">Int J Mol Sci. 21 (23) Dec 05 [Epub ahead of print].</a></li> <li>Heylmann, D. <i>et al.</i> (2021) Comparison of DNA repair and radiosensitivity of different</li> </ol>

blood cell populations. [Sci Rep. 11 \(1\): 2478.](#)

<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a></p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2693A647T10041">https://www.bio-rad-antibodies.com/SDS/MCA2693A647T10041</a></p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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